

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001518**Date Inspected:** 25-Mar-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Miscellaneous Metal, OBG1BE**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Miscellaneous Metal

Floor beam sub-assemblies were jointly inspected with ZPMC QC, ABF QA/QC and Caltrans QA Lumley. Profiles ranged from 46-53um on edges and the base metal surfaces were 58-85um. Also inspected were 400+ Cable angle base metal pieces which were gone through jointly and numerous pieces were removed due to improper blast (not SP-10) and fabrication defects.

Also it was pointed out to ZPMC QC that the method of laying the pieces out upon the angle iron on the floor of the paint shop was contaminating the base metal blasted surfaces due to excess overspray on the angle iron which the miscellaneous metal was set upon. Prior to the application of Interzinc 22 ZPMC removed said contaminants via solvent wiping SP-1 and resumed application.

OBG 1BE

ZPMC personnel re-blasting the base metal faying surfaces in areas between the "U" stiffeners again as they were not in the proper location the previously blasted. Profile ranged between 71-85um and application of Interzinc 22 was performed via air-spray method. Ambient conditions were monitored by ZPMC QC representative and were within the requirements of the contract documents and the coating manufacturers product data sheets.

Summary of Conversations:

No relevant conversations on this date.

SOURCE INSPECTION REPORT

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Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
